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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/825,661	04/03/2001	Jeffrey C. Mogul	9772-0323-999	3408
24341 7	7590 08/04/2004		EXAMINER	
MORGAN, LEWIS & BOCKIUS, LLP. 2 PALO ALTO SQUARE			PEREZ DAPLE, AARON C	
3000 EL CAMINO REAL		,	ART UNIT	PAPER NUMBER
PALO ALTO, CA 94306			2154	
			DATE MAILED: 08/04/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	09/825,661	MOGUL, JEFFREY C.
Office Action Summary	Examiner	Art Unit
	Aaron C Perez-Daple	2154
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet wit	th the correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailir earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a re bly within the statutory minimum of thirty will apply and will expire SIX (6) MONT e, cause the application to become AB.	eply be timely filed (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on <u>03 A</u> This action is FINAL . 2b)⊠ This Since this application is in condition for allowed closed in accordance with the practice under	s action is non-final. ance except for formal matte	•
Disposition of Claims		
4) Claim(s) 1-18 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-18 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	awn from consideration.	
Application Papers		
9) The specification is objected to by the Examina 10) The drawing(s) filed on is/are: a) accomposed and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	cepted or b) objected to be drawing(s) be held in abeyand ction is required if the drawing(ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documen 2. Certified copies of the priority documen 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list 	its have been received. Its have been received in Apority documents have been au (PCT Rule 17.2(a)).	oplication No received in this National Stage
Attachment(s)		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview S	ummary (PTO-413))/Mail Date
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 4/3/01. 		formal Patent Application (PTO-152)

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DETAILED ACTION

- 1. This Action is in response to Application filed 4/3/01, which has been fully considered.
- 2. Claims 1-18 are presented for examination.
- 3. This Action is non-Final.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over W3 Consortium ("The HTTP Distribution and Replication Protocol," http://www.w3.org/TR/NOTE, August 25, 1997.) (hereinafter W3) in view of He (US 5,734,898) (hereinafter He).
- 6. As for claims 1, 5, 10 and 14, W3 discloses a method for reducing network latency, comprising the steps of:

sending a request for a data object to a server (section 2.3, first paragraph, "A DRP index...that are specified.");

receiving a header portion of a response to said request (section 2.1, last paragraph, "A content identifier...in the URI specification.");

parsing said header portion for a digest value (section 2.3, parsing is inherent for removing the index from the header string so that it can then be used in the comparison);

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comparing said digest value to a digest index (section 2.3, third paragraph, "Once the initial download...client up-to-date."; section 2.3, Index Caching, "An HTTP proxy...protocol specification."; section 2.4, third paragraph, "Note that a...from different hosts.");

retrieving a cached data object from a cache if said digest value has a match in said digest index (section 2.4, third paragraph, "Note that a...from different hosts.");

sending said cached data object to a client (section 2.4, third paragraph, "Note that a...from different hosts."; section 2.6, "An HTTP proxy....the differential reply.").

Although obvious to one of ordinary skill in the art and arguably inherent to W3, W3 does not explicitly disclose informing the server to stop sending a remaining portion of said response (thereby terminating the connection with the server). He teaches informing the server to stop sending a remaining portion of said response for the purpose of preventing the download of a file already stored in the cache (col. 3, lines 32-40, "Fig. 20 shows...of communication line."). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify W3 by informing the server to stop sending a remaining portion of said response for the purpose of preventing the download of a file already stored in the cache, as taught by He.

7. As for claims 2 and 11, W3 discloses the method of claims 1 and 10, further comprising the steps of:

checking said cache for said data object before sending the request to said server (section 2.4, third paragraph, "Note that a...from different hosts."); and

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sending said data object to said client if said data object is found in said cache (section 2.4, third paragraph, "Note that a...from different hosts.").

- 8. As for claims 3 and 12, W3 discloses the method of claims 1 and 10 wherein said digest index is a hash table (the index of W3 is inherently a hash table because it allows for accessing records using a digest value; see cited webopedia.com definition; sections 2.1-2.2, "The DRP protocol...set of files:").
- 9. As for claims 4 and 13, W3 discloses the method of claims 1 and 10, further comprising the steps of:

receiving said remaining portion of said response from said server if no match for said digest value is found in said digest index based on said comparing step (section 2.4, paragraphs 1-4, "By requesting an...to be different."); and

sending said remaining portion of said response to said client (section 2.4, paragraphs 1-4, "By requesting an...to be different.").

10. As for claims 6 and 15, W3 discloses a method for reducing network latency, comprising the steps of:

sending a request for a data object to a server (section 2.3, first paragraph, "A DRP index...that are specified.");

receiving a server response from said server (section 2.3, second paragraph, "The index file...such as a database.");

calculating a digest value for said data object based on said server response (section 2.1, Content Identifiers, "The DRP protocol...the URI specification."; section 2.4, Content-ID Header Field, "Now that it...content was returned.");

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sending a response to a client cache starting with a header portion, said header portion including said digest value and enabling said client cache to compare said digest value to a digest index, retrieve a cached data object from said client cache if said digest value has a match in said digest index, and send said cached data object to a client (section 2.1, last paragraph, "A content identifier...in the URI specification."; section 2.4, paragraphs 1-4, "By requesting an...to be different.").

Although obvious to one of ordinary skill in the art and arguably inherent to W3, W3 does not explicitly disclose informing the server to stop sending a remaining portion of said response. He teaches informing the server to stop sending a remaining portion of said response for the purpose of preventing the download of a file already stored in the cache (col. 3, lines 32-40, "Fig. 20 shows...of communication line."). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify W3 by informing the server to stop sending a remaining portion of said response for the purpose of preventing the download of a file already stored in the cache, as taught by He.

11. As for claims 7 and 16, W3 discloses a method for reducing network retrieval latency, comprising the steps of:

receiving a first request for a data object (section 2.3, first paragraph, "A DRP index...that are specified.");

obtaining a digest value of said requested data object (section 2.1, Content Identifiers, "The DRP protocol...the URI specification.");

inserting said digest value into a header portion of a response (section 2.1, last paragraph, "A content identifier...in the URI specification.");

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sending said response, starting with said header portion (section 2.3, paragraphs 1-3, "A DRP index...client up-to-date.").

Although obvious to one of ordinary skill in the art and arguably inherent to W3, W3 does not explicitly disclose informing the server to stop sending a remaining portion of said response. He teaches informing the server to stop sending a remaining portion of said response for the purpose of preventing the download of a file already stored in the cache (col. 3, lines 32-40, "Fig. 20 shows...of communication line."). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify W3 by informing the server to stop sending a remaining portion of said response for the purpose of preventing the download of a file already stored in the cache, as taught by He.

12. As for claims 8 and 17, W3 discloses the method of claims 7 and 16, wherein said obtaining includes the step of:

retrieving said digest value from a hash table (the index of W3 inherently comprises a hash table, see cited webopedia.com definition; section 2.2, "To describe...set of files:").

13. As for claims 9 and 18, W3 discloses the method of claims 7 and 16, wherein said obtaining includes the step of:

calculating said digest value based on contents of said data object (section 2.1, Content Identifiers, "The DRP protocol...the URI specification.").

Conclusion

14. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. http://www.webopedia.com/TERM/h/hashing.html, July 12, 2004; US

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2002/0073276 A1, note hash table used in cache system; US 5,301,280, note teaches aborting request; US 5,919,247, note teaches proxy server with cache; US 6,389,510 B1, note Fig. 1; US 2002/0048269 A1, note Fig. 1; US 2001/0027479 A1, note client cache system with digests.

15. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Aaron C Perez-Daple whose telephone number is (703) 305-4897. The examiner can normally be reached on 9am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Follansbee can be reached on (703) 305-8498. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Aaron Perez-Daple

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